

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A fluorine gas generator comprising:

a box-shaped body containing an electrolyzer for fluorine gas generation, said box-shaped body being partitioned into at least three compartments separated from each other by internal partition walls such that gases in the at least three compartments do not mix together, including:

a first compartment containing said electrolyzer;

a second compartment containing a first adsorption unit that adsorbs hydrogen fluoride from fluorine gas discharged from an anode chamber of the electrolyzer; and

a third compartment containing a second adsorption unit that adsorbs hydrogen fluoride from hydrogen gas discharged from a cathode chamber of the electrolyzer,

wherein said second compartment and said third compartment are respectively provided directly adjacent to said first compartment.

Claim 2 (Currently Amended): A fluorine gas generator comprising:

an electrolyzer containing an electrolytic bath composed of a mixed molten salt containing hydrogen fluoride and divided into an anode chamber with an anode disposed therein and a cathode chamber with a cathode disposed therein,

a first adsorption unit that adsorbs hydrogen fluoride from the fluorine gas discharged from the anode chamber,

a second adsorption unit that adsorbs hydrogen fluoride from the hydrogen gas discharged from the cathode chamber, and

a box-shaped body containing the electrolyzer, the first adsorption unit, and the second adsorption unit,

said box-shaped body comprising three compartments separated from each other by internal partition walls such that gases in the at least three compartments do not mix together, and including a first compartment containing said electrolyzer, a second compartment containing said first adsorption unit, and a third compartment containing said second adsorption unit,

wherein said second compartment and said third compartment are respectively provided directly adjacent to said first compartment.

Claim 3 (Original): The fluorine gas generator according to Claim 2, wherein each of the first to third compartments is provided with a suction opening for suctioning the internal air.

Claim 4 (Previously Amended): The fluorine gas generator according to Claim 2 or 3, wherein said second compartment contains a reservoir tank for storing the fluorine gas after passing through said first adsorption unit and a pressurizing device configured to pressurize the fluorine gas from said reservoir tank.

Claim 5 (Previously Amended): The fluorine gas generator according to Claim 2, wherein said first compartment contains a water heating device for feeding warm water to said electrolyzer for heating said electrolyzer.

Claim 6 (Original): The fluorine gas generator according to Claim 2, wherein said electrolyzer is mounted on a transporting member capable of entering and leaving said first compartment.

Claim 7 (Previously Amended): The fluorine gas generator according to Claim 6, wherein said first adsorption unit comprises at least two adsorption columns, wherein each adsorption column can be operated alone or more than one adsorption column can be operated simultaneously, and each of the adsorption columns is mounted on a transporting member capable of entering and leaving the second compartment.

Claim 8 (Previously Amended): The fluorine gas generator according to Claim 6, wherein said second adsorption unit comprises at least two adsorption columns, wherein each adsorption column can be operated alone or more than one adsorption column can be operated simultaneously, and each of the adsorption columns is mounted on a transporting member capable of entering and leaving the third compartment.

Claim 9 (New): The fluorine gas generator according to claim 1, wherein said first compartment is centrally located between said second and third compartments.

Claim 10 (New): The fluorine gas generator according to claim 1, wherein said box-shaped body is formed as a unit.

Claim 11 (New): The fluorine gas generator according to claim 2, wherein said first compartment is centrally located between said second and third compartments.

Claim 12 (New): The fluorine gas generator according to claim 2, wherein said box-shaped body is formed as a unit.